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 TITLE: Increasing prodn. of sec. metabolites in fungal culture -
 by pulse feeding with additional carbon source during
 metabolite production.
 DERWENT CLASS: B03 D16
 INVENTOR(S): MARSHALL, J W
 PATENT ASSIGNEE(S): (MARS-I) MARSHALL J W
 COUNTRY COUNT: 1
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
CA 1292962	C	19911210	(199205)				

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
CA 1292962	C	CA 1987-553215	19871201

PRIORITY APPLN. INFO: US 1986-937237 19861203

INT. PATENT CLASSIF.: C12N001-14; C12P001-02

BASIC ABSTRACT:

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A process for increasing the production of secondary metabolites during culture of a selected fungi is claimed comprising (a) initiating culture of the selected fungi in medium containing assimilable sources of C, N and P, (b) culturing the selected fungi in the medium through its growth phases to produce the secondary metabolites, (c) pulse feeding the culture during secondary metabolite production from the selected fungi by periodically supplementing the medium with additional source of carbon to enhance thereby continued production of the secondary metabolites.

In a pref. process, the fungi are Tolypocladium iflatum ATCC34921 or ATCC20798 and the secondary metabolites are cyclosporins. The medium pref. contains glucose, maltose or sorbose as C source, Bacto-peptone as N source KH₂PO₄ as P source and KCl.

ADVANTAGE - Supplying additional C source just as production of the metabolite starts to fall off sustains the maximum production rate of the metabolite. The pulse feeding circumvents the possible carbon catabolite repressive effects of high carbon concentration 0/6

FILE SEGMENT: CPI
 FIELD AVAILABILITY: AB; DCN
 MANUAL CODES: CPI: B02-C01; B04-B02B2; B11-A; D05-A04C; D05-H01;
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